Who is most at risk of HIV infection? Detailed data tables and technical notes

Recent changes to the presentation of Massachusetts HIV/AIDS surveillance data

Effective January 1, 2011, the Massachusetts Department of Public Health (MDPH), Bureau of Infectious Diseases, HIV/AIDS fact sheets, epidemiologic reports and other HIV data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts. As of January 1, 2014, this resulted in the removal of 4,135 HIV/AIDS cases, of which 973 have died and 3,162 were living. These persons living with HIV/AIDS may still continue to reside and receive care in the Commonwealth. The total number of persons living with HIV/AIDS. irrespective of location at diagnosis, is the basis for MDPH service planning. This change is partially a result of increased activities required by the Centers for Disease Control and Prevention (CDC) for de-duplication among states in an effort to identify cases that are counted multiple times in the National HIV/AIDS Surveillance System. The cases are assigned to the state that reports the earliest date of AIDS diagnosis if available. If the case has not progressed to AIDS, the case is assigned to the state with the earliest HIV diagnosis date. Please note that previous HIV/AIDS fact sheets, data reports and presentations included cases that may have been first diagnosed in another state.

Also effective January 1, 2011, the MDPH HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to eliminate the presumed heterosexual exposure mode category for males; those cases have been reassigned to the no identified risk (NIR) exposure mode category. The presumed heterosexual exposure mode category was used with the intention of identifying HIV exposure mode for females when sex with males is the only reported risk factor, there is no evidence of current or past injection drug use (IDU), and behavioral risk and HIV status information about male sexual partners are unknown. Twenty-nine percent of females living with HIV/AIDS and 40% of recent female HIV diagnoses are reported in the presumed heterosexual exposure mode category. The application of the presumed heterosexual exposure mode category to males is overly inclusive in that female to male HIV transmission is biologically less probable, and there are alternate exposure modes that are possible for males, including sex with other men (MSM) or IDU. The CDC reports males diagnosed with HIV/AIDS who report sex with females as their only risk factor, without corresponding partner risk or HIV status information, in the NIR exposure mode category. This revision to report presumed heterosexual male HIV/AIDS cases as NIR will bring Massachusetts HIV/AIDS case reporting for males in alignment with CDC standards. The MDPH will maintain presumed heterosexual and heterosexual exposure mode categories for females.

Background on HIV reporting system

On January 1, 1999 the Massachusetts Department of Public Health (MDPH) started requiring healthcare providers to submit case report forms, with demographic and risk information on individuals diagnosed with HIV infection, as they had been doing for AIDS since 1983. Existing cases of HIV infection diagnosed through 1998 also were to be reported by the end of 1999. When comparing HIV infection diagnosed before 1999 to HIV infection diagnosed after 1999, one should consider the differences in HIV reporting requirements for these two time periods. Since HIV was not reported at diagnosis prior to 1999 and clinical providers were given a relatively short time frame within which to report all prevalent HIV cases, the pre-1999 data are considered less complete than data reported after 1999. Additionally, pre-1999 HIV infection diagnoses do not include people who were diagnosed with HIV infection and who died before 1999 without being reported with AIDS, nor do they include individuals who were no longer receiving HIV-related health care in Massachusetts at the point when HIV (non-AIDS) reporting became mandatory.

Caveats of the data

While trends in new HIV diagnoses are the best indicator for those who are presently most at risk of HIV infection, HIV surveillance reflects only incident diagnoses among people who are in care and not the actual incidence of new infections. Like AIDS diagnoses, HIV infection diagnoses are not a direct measure of incidence of infection itself. People may be living with HIV infection for many years prior to being tested and seeking care, at which point the case is considered a "diagnosis" and reported to the MDPH HIV/AIDS Surveillance Program. Furthermore, as with early data for AIDS cases, the data from the first few years of a new reporting system can be unstable, and caution should be used in interpretation. During the time a reporting system is in its infancy, there is a greater likelihood that fluctuations in data are attributable to reporting patterns and clinician education efforts rather than actual changes in incidence.

One must consider the effects of reporting lag on reported HIV infection diagnoses in the most recent years. Although Massachusetts regulations require providers to submit HIV case reports in a timely fashion, many 2012 HIV infection diagnoses will be reported to the surveillance program after the release of this Epidemiologic Profile. Thus, the 2012 data presented in this report may represent an undercount. Previous analyses of Massachusetts HIV/AIDS case data have suggested that the distribution of HIV infection diagnoses by race/ethnicity, gender and exposure mode for cases reported more than 6 months after diagnosis was not substantially different than the distribution of HIV cases reported within 6 months. Caution should be exercised when considering changes in HIV diagnosis trends for 2012.

Table 1. People diagnosed with HIV infection by gender and year of diagnosis: Massachusetts¹ 2003–2012²

	Male		Female		
	N	%	N	%	Total
2003	649	68%	309	32%	958
2004	645	71%	269	29%	914
2005	656	73%	241	27%	897
2006	585	72%	229	28%	814
2007	532	72%	208	28%	740
2008	534	73%	196	27%	730
2009	529	76%	163	24%	692
2010	498	72%	191	28%	689
2011	488	72%	194	28%	682
2012	517	74%	177	26%	694

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Table 2. People diagnosed with HIV infection by race/ethnicity and year of diagnosis: Massachusetts¹, 2003–2012²

	White ((NH)	Black ((NH)	Hispa Latir		API		Total ³
	N	%	N	%	N	%	N	%	N
2003	382	40%	336	35%	222	23%	12	1%	958
2004	346	38%	305	33%	242	26%	15	2%	914
2005	358	40%	304	34%	217	24%	16	2%	897
2006	339	42%	253	31%	198	24%	19	2%	814
2007	314	42%	234	32%	173	23%	16	2%	740
2008	290	40%	243	33%	163	22%	27	4%	730
2009	279	40%	226	33%	165	24%	19	3%	692
2010	277	40%	214	31%	174	25%	21	3%	689
2011	235	34%	240	35%	169	25%	26	4%	682
2012	265	38%	211	30%	190	27%	19	3%	694

¹Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/14

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

³ Totals include American Indian/Alaskan Native individuals and those of other or undetermined race/ethnicity NH = Non-Hispanic, API = Asian/Pacific Islander

Table 3. Males diagnosed with HIV infection by race/ethnicity and year of diagnosis: Massachusetts¹, 2003–2012²

	White ((NH)	Black ((NH)	Hispa Latir		API	Total ³	
	N	%	N	%	N	%	N	%	N
2003	322	50%	176	27%	139	21%	8	1%	649
2004	303	47%	167	26%	160	25%	11	2%	645
2005	320	49%	170	26%	152	23%	14	2%	656
2006	292	50%	131	22%	142	24%	15	3%	585
2007	259	49%	138	26%	123	23%	10	2%	532
2008	260	49%	134	25%	110	21%	23	4%	534
2009	245	46%	143	27%	123	23%	16	3%	529
2010	242	49%	112	22%	126	25%	17	3%	498
2011	197	40%	136	28%	125	26%	21	4%	488
2012	235	45%	114	22%	147	28%	16	3%	517

Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

NH = Non-Hispanic, API = Asian/Pacific Islander

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/14

Table 4. Females diagnosed with HIV infection by race/ethnicity and year of diagnosis: Massachusetts¹, 2003–2012²

	White ((NH)	Black ((NH)	Hispa Latir		API	Total ³	
	N	%	N	%	N	%	N	%	N
2003	60	19%	160	52%	83	27%	4	1%	309
2004	43	16%	138	51%	82	30%	4	1%	269
2005	38	16%	134	56%	65	27%	2	1%	241
2006	47	21%	122	53%	56	24%	4	2%	229
2007	55	26%	96	46%	50	24%	6	3%	208
2008	30	15%	109	56%	53	27%	4	2%	196
2009	34	21%	83	51%	42	26%	3	2%	163
2010	35	18%	102	53%	48	25%	4	2%	191
2011	38	20%	104	54%	44	23%	5	3%	194
2012	30	17%	97	55%	43	24%	3	2%	177

Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

³ Totals include American Indian/Alaskan Native individuals and those of other or undetermined race/ethnicity

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

Totals include American Indian/Alaskan Native individuals and those of other or undetermined race/ethnicity

⁽NH) = Non-Hispanic, API = Asian/Pacific Islander

Table 5. People diagnosed with HIV infection by place of birth and year of diagnosis: Massachusetts¹, 2003–2012²

	US	ι	Puerto R JS Depend	•	Non-U	S	
	N	%	N	%	N	%	Total
2003	581	61%	81	8%	296	31%	958
2004 2005	548 540	60% 60%	99 82	11% 9%	267 275	29% 31%	914 897
2006 2007	503 458	62% 62%	58 56	7% 8%	253 226	31% 31%	814 740
2008 2009	443 433	61% 63%	67 48	9% 7%	220 211	30% 30%	730 692
2010 2011 2012	431 407 301	63% 60%	43 41	6% 6%	215 234	31% 34%	689 682
2012	391	56%	62	9%	241	35%	694

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.
 Ninety-eight percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto

³ Ninety-eight percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, <1% were born in Guam and 1% were born in an unknown dependency.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/14

Table 6. *Males* diagnosed with HIV infection by place of birth and year of diagnosis: Massachusetts¹, 2003–2012²

	US		Puerto R US Depend	^	Non-U	S	
	N	%	N	%	N	%	Total
2003	451	69%	41	6%	157	24%	649
2004	439	68%	64	10%	142	22%	645
2005	434	66%	58	9%	164	25%	656
2006	391	67%	40	7%	154	26%	585
2007	358	67%	38	7%	136	26%	532
2008	364	68%	42	8%	128	24%	534
2009	362	68%	31	6%	136	26%	529
2010	356	71%	34	7%	108	22%	498
2011	320	66%	30	6%	138	28%	488
2012	320	62%	49	9%	148	29%	517

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

³ Ninety-eight percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, <1% were born in Guam and 1% were born in an unknown dependency.

Table 7. *Females* diagnosed with HIV infection by place of birth and year of diagnosis: Massachusetts¹ 2003–2012²

US			^	Non-U	S	
N	%	N	%	N	%	Total
130	42%	40	13%	139	45%	309
						269 241
112	49%	18	8%	99	43%	229
				90 92		208 196
71	44%	17	10%	75	46%	163
75 87		9 11	5% 6%	107	56%	191 194
71	40%	13	7%	93	53%	177
	130 109 106 112 100 79 71 75 87	N % 130 42% 109 41% 106 44% 112 49% 100 48% 79 40% 71 44% 75 39% 87 45%	US US Depend N % N 130 42% 40 109 41% 35 106 44% 24 112 49% 18 100 48% 18 79 40% 25 71 44% 17 75 39% 9 87 45% 11	N % N % 130 42% 40 13% 109 41% 35 13% 106 44% 24 10% 112 49% 18 8% 100 48% 18 9% 79 40% 25 13% 71 44% 17 10% 75 39% 9 5% 87 45% 11 6%	US US Dependency³ Non-U N % N % N 130 42% 40 13% 139 109 41% 35 13% 125 106 44% 24 10% 111 112 49% 18 8% 99 100 48% 18 9% 90 79 40% 25 13% 92 71 44% 17 10% 75 75 39% 9 5% 107 87 45% 11 6% 96	US US Dependency³ Non-US N % N % 130 42% 40 13% 139 45% 109 41% 35 13% 125 46% 106 44% 24 10% 111 46% 112 49% 18 8% 99 43% 100 48% 18 9% 90 43% 79 40% 25 13% 92 47% 71 44% 17 10% 75 46% 75 39% 9 5% 107 56% 87 45% 11 6% 96 49%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.
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³ Ninety-eight percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, <1% were born in Guam and 1% were born in an unknown dependency.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/14

Table 8. People diagnosed with HIV infection by exposure mode and year of diagnosis: Massachusetts¹, 2003–2012²

	MS	SM .	ID	U	MSI IDI		нтѕх		Pre HTS		Unde min	_	Total ⁵
	N	%	N	%	N	%	N	%	N	%	N	%	N
2003	318	33%	146	15%	32	3%	136	14%	129	13%	184	19%	958
2004	292	32%	146	16%	26	3%	137	15%	109	12%	193	21%	914
2005	351	51 39% 121 13%		22	2%	110	12%	100	11%	188	21%	897	
2006	339	42%	96	12%	18	2%	101	12%	102	13%	152	19%	814
2007	292	39%	96	13%	22	3%	81	11%	82	11%	162	22%	740
2008	288	39%	70	10%	29	4%	93	13%	81	11%	163	22%	730
2009	310	45%	46	7%	18	3%	90	13%	64	9%	159	23%	692
2010	292	42%	67	10%	22	3%	84	12%	82	12%	136	20%	689
2011	272	40%	62	9%	19	3%	85	12%	80	12%	161	24%	682
2012	317	46%	43	6%	22	3%	59	9%	93	13%	156	22%	694

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/14

Note: The category of "presumed heterosexual" is used in Massachusetts to re-assign females who are reported with an exposure of heterosexual sex, but only with a partner of unknown HIV status or behavioral risk. Massachusetts uses the category of presumed heterosexual to distinguish these female cases from other undetermined cases about which we know less. Prior to January 1, 2011, the presumed heterosexual category was also used to report HIV data in males. The rationale for the application of the presumed heterosexual exposure mode category to females only has been addressed in the MDPH OHA report "Intersecting Risks: HIV Infection among Heterosexual Women and Men in Massachusetts." (2010) http://www.mass.gov/Eeohhs2/docs/dph/aids/intersecting_risks.pdf. Nationally, the

Centers for Disease Control and Prevention categorize "presumed heterosexual" cases as "no identified risk" (NIR). As such, comparisons of the presumed heterosexual category cannot be made to national data. Caution should be used in interpreting data for presumed heterosexual, as it is still not clear what the exposure risk was for females in this category. Although a person may not report other risk behaviors, such as injection drug use to a health care provider, it does not exclude the possibility that an individual has experienced these other risks. There are many barriers to disclosing HIV risk behaviors in the health care setting such as a limited patient-provider relationship or stigma.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

³ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁴ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁵ Totals include pediatric and blood/blood products exposure modes

Table 9. *Males* diagnosed with HIV infection by exposure mode and year of diagnosis: Massachusetts¹, 2003–2012²

	MSI	M	IDU	J	MSM/ IDU			X	Unde mine	_	Total⁴
	N	%	N	%	N	%	N	%	N	%	N
2003	318	49%	94	14%	32	5%	45	7%	150	23%	649
2004	292	292 45% 10		16%	26	4%	48	7%	174	27%	645
2005	351	54%	89	14%	22	3%	36	5%	158	24%	656
2006	339	58%	49	8%	18	3%	42	7%	134	23%	585
2007	292	55%	58	11%	22	4%	27	5%	131	25%	532
2008	288	54%	44	8%	29	5%	29	5%	138	26%	534
2009	310	59%	32	6%	18	3%	27	5%	140	26%	529
2010	292	59%	45	9%	22	4%	28	6%	108	22%	498
2011	272	56%	40	8%	19	4%	23	5%	133	27%	488
2012	317	61%	21	4%	22	4%	27	5%	127	25%	517

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts

MSM = Male-to-Male Sex; IDU = Injection Drug Use; HTSX = Heterosexual Sex

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

³ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁴ Totals include pediatric and blood/blood products exposure modes.

Table 10. *Females* diagnosed with HIV infection by exposure mode and year of diagnosis: Massachusetts¹, 2003–2012²

	IDU	l	HTS	X	Pres		Undet mine	-	Total ⁵
	N	%	N	%	N	%	N	%	N
2003	52	17%	91	29%	129	42%	34	11%	309
2004	46	17%	89	33%	109	41%	19	7%	269
2005	32	13%	74	31%	100	41%	30	12%	241
2006	47	21%	59	26%	102	45%	18	8%	229
2007	38	18%	54	26%	82	39%	31	15%	208
2008	26	13%	64	33%	81	41%	25	13%	196
2009	14	9%	63	39%	64	39%	19	12%	163
2010	22	12%	56	29%	82	43%	28	15%	191
2011	22	11%	62	32%	80	41%	28	14%	194
2012	22	12%	32	18%	93	53%	29	16%	177

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

IDU = Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

³ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁴ Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up.

Totals include pediatric and blood/blood products exposure modes

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	<	:13	13	-19	20	–24	25	-29	30-	-34	35	-39	40	-44	45	- 49	50	– 54	55-	-59	6	0+	Total
Year	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2003	4	<1%	22	2%	69	7%	126	12%	185	18%	227	21%	184	17%	107	10%	67	6%	35	3%	30	3%	1,056
2004	8	1%	19	2%	60	6%	94	10%	158	16%	207	22%	167	17%	119	12%	66	7%	29	3%	31	3%	958
2005	10	1%	20	2%	55	6%	96	11%	134	15%	182	20%	165	18%	116	13%	70	8%	37	4%	29	3%	914
2006	5	1%	8	1%	59	7%	88	10%	143	16%	154	17%	190	21%	127	14%	61	7%	37	4%	25	3%	897
2007	5	1%	21	3%	61	7%	91	11%	99	12%	144	18%	146	18%	116	14%	66	8%	41	5%	24	3%	814
2008	4	1%	13	2%	53	7%	81	11%	85	11%	133	18%	130	18%	111	15%	62	8%	36	5%	32	4%	740
2009	6	1%	18	2%	59	8%	101	14%	91	12%	78	11%	124	17%	104	14%	72	10%	42	6%	35	5%	730
2010	3	<1%	19	3%	60	9%	69	10%	94	14%	89	13%	107	15%	114	16%	63	9%	38	5%	36	5%	692
2011	6	1%	11	2%	62	9%	67	10%	84	12%	110	16%	97	14%	101	15%	77	11%	40	6%	34	5%	689
2012	3	<1%	22	3%	69	10%	73	11%	84	12%	90	13%	114	17%	94	14%	58	9%	38	6%	37	5%	682

Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/14

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	•	<13	13-	-19	20	-24	25	–29	30	-34	35-	-39	40-	- 44	45	– 49	50	-54	55-	-59	6	0+	Total
Year	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2003	2	<1%	10	1%	39	5%	73	10%	116	16%	163	23%	130	18%	80	11%	51	7%	24	3%	25	4%	713
2004	6	1%	10	2%	35	5%	47	7%	109	17%	155	24%	117	18%	75	12%	52	8%	23	4%	20	3%	649
2005	4	1%	10	2%	37	6%	62	10%	88	14%	145	22%	117	18%	85	13%	44	7%	30	5%	23	4%	645
2006	0	0%	5	1%	40	6%	65	10%	101	15%	115	18%	146	22%	97	15%	45	7%	26	4%	16	2%	656
2007	3	1%	10	2%	39	7%	60	10%	70	12%	112	19%	109	19%	85	15%	52	9%	27	5%	18	3%	585
2008	1	<1%	6	1%	40	8%	57	11%	54	10%	101	19%	95	18%	81	15%	51	10%	25	5%	21	4%	532
2009	6	1%	12	2%	48	9%	73	14%	62	12%	54	10%	91	17%	80	15%	52	10%	30	6%	26	5%	534
2010	1	<1%	14	3%	50	9%	55	10%	68	13%	67	13%	81	15%	96	18%	45	9%	26	5%	26	5%	529
2011	3	1%	6	1%	45	9%	52	10%	59	12%	75	15%	74	15%	81	16%	58	12%	23	5%	22	4%	498
2012	1	<1%	12	2%	57	12%	57	12%	55	11%	62	13%	85	17%	68	14%	42	9%	26	5%	23	5%	488

Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

implementation of HIV infection reporting in 1999.

Table	e 13	3. <i>Fe</i>	ma	les c	liag	nose	d w	ith H	IV ir	nfecti	on	by aç	ge a	t dia	gno	sis: N	l las	sach	use	tts¹,	200)3–2	012 ²
	<	13	13-	-19	20	-24	25	–29	30	-34	35	– 39	40	–44	45	– 49	50	-54	55	-59	6	0+	Total
Year	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2003	2	1%	12	3%	30	9%	53	15%	69	20%	64	19%	54	16%	27	8%	16	5%	11	3%	5	1%	343
2004	2	1%	9	3%	25	8%	47	15%	49	16%	52	17%	50	16%	44	14%	14	5%	6	2%	11	4%	309
2005	6	2%	10	4%	18	7%	34	13%	46	17%	37	14%	48	18%	31	12%	26	10%	7	3%	6	2%	269
2006	5	2%	3	1%	19	8%	23	10%	42	17%	39	16%	44	18%	30	12%	16	7%	11	5%	9	4%	241
2007	2	1%	11	5%	22	10%	31	14%	29	13%	32	14%	37	16%	31	14%	14	6%	14	6%	6	3%	229
2008	3	1%	7	3%	13	6%	24	12%	31	15%	32	15%	35	17%	30	14%	11	5%	11	5%	11	5%	208
2009	0	0%	6	3%	11	6%	28	14%	29	15%	24	12%	33	17%	24	12%	20	10%	12	6%	9	5%	196
2010	2	1%	5	3%	10	6%	14	9%	26	16%	22	13%	26	16%	18	11%	18	11%	12	7%	10	6%	163
2011	3	2%	5	3%	17	9%	15	8%	25	13%	35	18%	23	12%	20	10%	19	10%	17	9%	12	6%	191
2012	2	1%	10	5%	12	6%	16	8%	29	15%	28	14%	29	15%	26	13%	16	8%	12	6%	14	7%	194

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/14

Table 14. People diagnosed with HIV infection by Health Service Region (HSR)¹: Massachusetts², 2003–2012³

	Bost	ton	Cent	tral	Metro	West	North	east	South	east	West	ern	Priso	ns ⁴	Total ⁵
Year	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2003	345	33%	106	10%	154	15%	166	16%	157	15%	104	10%	24	2%	1,056
2004	307	32%	87	9%	150	16%	165	17%	118	12%	100	10%	30	3%	958
2005	266	29%	84	9%	126	14%	158	17%	115	13%	121	13%	43	5%	914
2006	289	32%	72	8%	141	16%	154	17%	109	12%	97	11%	35	4%	897
2007	246	30%	81	10%	109	13%	142	17%	117	14%	92	11%	26	3%	814
2008	218	29%	61	8%	126	17%	118	16%	115	16%	79	11%	23	3%	740
2009	207	28%	58	8%	123	17%	140	19%	95	13%	76	10%	31	4%	730
2010	199	29%	54	8%	130	19%	111	16%	115	17%	64	9%	19	3%	692
2011	212	31%	59	9%	115	17%	114	17%	90	13%	76	11%	23	3%	689
2012	219	32%	61	9%	103	15%	115	17%	90	13%	69	10%	24	4%	682

¹ Reflects the health service region of a person's residence at the time of report (not necessarily current residence). See Epidemiologic Profile General Appendices, Health Service Region Maps, available at http://www.mass.gov/dph/aids/research/profile2005/app5 hrs maps.pdf. for configuration of health service regions.

² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

⁴ HSRs are regions defined geographically to facilitate targeted health service planning. While prisons do not constitute an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. See Epidemiologic Profile General Appendices, Health Service Region Maps, available at http://www.mass.gov/dph/aids/research/profile2005/app5 hrs maps.pdf for configuration of health service regions. Prisons include only persons who were diagnosed with HIV/AIDS while in a correctional facility. These data do not reflect current incarceration status.

⁵ Totals include two people of unknown HSR

People diagnosed with HIV infection from 2010–2012

Table 15. People diagnosed with HIV infection by gender and race/ethnicity: Massachusetts¹, 2010–2012²

	Male	Female		
Race/Ethnicity:	N	%	N	%
White, non-Hispanic	674	45%	103	18%
Black, non-Hispanic	362	24%	303	54%
Hispanic/Latino	398	26%	135	24%
Asian/Pacific Islander	54	4%	12	2%
Other/Unknown	15	1%	9	2%
Total	1,503	100%	562	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data as of 1/1/14

Table 16. People diagnosed with HIV infection by gender and exposure mode: Massachusetts¹, 2010–2012²

	Male)	Female			
Exposure Mode:	N	%	N	%		
Male-to-male sex (MSM)	881	59%	N/A	N/A		
Injection drug use (IDU)	106	7%	66	12%		
MSM/IDU	63	4%	N/A	N/A		
Heterosexual sex	78	5%	150	27%		
Other	7	<1%	6	1%		
Total undetermined/other	368	24%	340	60%		
 Presumed Heterosexual Sex³ 	N/A	N/A	255	45%		
 Undetermined⁴ 	368	24%	85	15%		
Total	1,503	100%	562	100%		

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

³ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁴ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

N/A = Not Applicable

Table 17. People diagnosed with HIV infection by race/ethnicity¹ and place of birth: Massachusetts², 2010–2012³

			Puerto F	Rico/		
	US		US Depend	dency ⁴	Non-U	S
Race/Ethnicity:	N	%	N	%	N	%
			6			
White (NH)	712	92%	6	<1%	64	8%
Black (NH)	300	45%	 ⁶	<1%	364	55%
Hispanic/Latino	180	34%	144	27%	209	39%
APÍ	20	30%	0	0%	46	70%
Total	1,229	60%	6	7%	690	33%

¹ Data for American Indian/Alaska Native and Other/Unknown race/ethnicity are not presented due to small numbers. ² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Table 18. *Males* diagnosed with HIV infection by race/ethnicity¹ and place of birth: Massachusetts², 2010–2012³

	Puerto Rico/ US US Dependency ⁴ Non-US								
Race/Ethnicity:	N	%	N	%	N	%			
White (NH)	615	91%	0	0%	59	9%			
Black (NH) Hispanic/Latino	215 135	59% 34%	113	0% 28%	147 150	41% 38%			
API All Males ⁵	18 996	33% 66%	0 113	0% 8%	36 394	67% 26%			

Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.
 Ninety-eight percent of people diagnosed with HIV infection from 2010–2012 who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, 1% were born in Guam and 1% were born in an unknown dependency.

⁵Totals include people of American Indian/Alaska Native and Other/Unknown race/ethnicity.

⁶ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

⁽NH) = Non-Hispanic, API = Asian/Pacific Islander

¹ Data for American Indian/Alaska Native and Other/Unknown race/ethnicity are not presented due to small numbers. ² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.
 Ninety-eight percent of people diagnosed with HIV infection from 2010–2012 who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, 1% were born in Guam and 1% were born in an unknown

dependency.

⁵Totals include people of American Indian/Alaska Native and Other/Unknown race/ethnicity.

(NH) = Non-Hispanic, API = Asian/Pacific Islander

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/14

Table 19. Females diagnosed with HIV infection by race/ethnicity¹ and place of birth: Massachusetts², 2010–2012³

	97 85 no 45		Puerto R	lico/		
	US US		US Depend	dency⁴	Non-U	S
Race/Ethnicity:	N	%	N	%	N	%
White (NH)	97	94%	6	1%	5	5%
Black (NH)	85	28%	 ⁶	<1%	217	72%
Hispanic/Latino All Females ⁵		33% 41%	31 ⁶	23% 6%	59 296	44% 53%

¹ Data for Asian/Pacific Islander, American Indian/Alaska Native and Other/Unknown race/ethnicity are not presented due to small numbers.

⁵ Totals include people of American Indian/Alaska Native and Other/Unknown race/ethnicity.

(NH) = Non-Hispanic

⁶ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

⁴ Ninety-eight percent of people diagnosed with HIV infection from 2010–2012 who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, 1% were born in Guam and 1% were born in an unknown dependency.

⁶ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Table 20. People diagnosed with HIV infection by race/ethnicity¹ and exposure mode: Massachusetts², 2010–2012³

	White (NH)	Black (NH)	Hispanic/	Latino
Exposure Mode:	N	%	N	%	N	%
Male-to-male sex (MSM)	506	65%	135	20%	190	36%
Injection drug use (IDU)	72	9%	28	4%	69	13%
MSM/IDU	48	6%	6	1%	 ⁶	 ⁶
Heterosexual sex	31	4%	108	16%	80	15%
Other	0	0%	9	1%	6	 ⁶
Total undetermined/other	120	15%	379	57%	182	34%
 Presumed heterosexual sex⁴ 	23	3%	174	26%	47	9%
 Undetermined⁵ 	97	12%	205	31%	135	25%
Total	777	100%	665	100%	533	100%

Data for Asian/Pacific Islander, American Indian/Alaska Native and Other/Unknown race/ethnicity are not presented due to small

(NH) = Non-Hispanic

² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for

the most recently available three-year period after the implementation of HIV infection reporting in 1999.

⁴ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁵ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have

died with no determined risk, and those lost to follow-up.

6 Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Table 21. *Males* diagnosed with HIV infection by race/ethnicity¹ and exposure mode: Massachusetts², 2010–2012³

	White (NH)	Black (NH)	Hispanic/	Latino
Exposure Mode:	N	%	N	%	N	%
Male-to-male sex (MSM)	506	75%	135	37%	190	48%
Injection drug use (IDU)	29	4%	22	6%	52	13%
MSM/IDU	48	7%	6	2%	8	2%
Heterosexual sex	10	1%	32	9%	34	9%
Undetermined ⁴	81	12%	163	45%	111	28%
Total ⁵	674	100%	362	100%	398	100%

¹ Data for Asian/Pacific Islander, American Indian/Alaska Native and Other/Unknown race/ethnicity are not presented due to small numbers.

(NH) = Non-Hispanic

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/14

Table 22. Females diagnosed with HIV infection by race/ethnicity¹ and exposure mode: Massachusetts², 2010–2012³

	White (NH)	Black (NH)	Hispar Latin	
Exposure Mode:	N	%	N	%	N	%
Injection drug use	43	42%	6	2%	17	13%
Heterosexual sex	21	20%	76	25%	46	34%
Total undetermined/other	39	38%	216	71%	71	53%
 Presumed heterosexual sex⁴ Undetermined⁵ 	23 16	22% 16%	174 42	57% 14%	47 24	35% 18%
Total ⁶	103	100%	303	100%	135	100%

¹ Data for Asian/Pacific Islander, American Indian/Alaska Native and Other/Unknown race/ethnicity are not presented due to small numbers.

(NH) = Non-Hispanic

² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

⁴ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁵ Totals include pediatric and blood/blood products exposure modes.

² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

⁴ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁵ Includes those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up.

⁶ Totals include pediatric and blood/blood products exposure modes.

Table 23. People diagnosed with HIV infection by Health Service Region (HSR)¹ and gender: Massachusetts², 2010–2012³

Male		Femal	е	Total
N	%	N	%	N
485	78%	140	22%	625
114	63%	66	37%	180
234	73%	88	27%	322
252	69%	115	31%	367
201	72%	80	28%	281
167	72%	66	28%	233
48	87%	7	13%	55
1,503	73%	562	27%	2,065
	N 485 114 234 252 201 167 48	485 78% 114 63% 234 73% 252 69% 201 72% 167 72% 48 87%	N % 485 78% 140 114 63% 66 234 73% 88 252 69% 115 201 72% 80 167 72% 66 48 87% 7	N % N % 485 78% 140 22% 114 63% 66 37% 234 73% 88 27% 252 69% 115 31% 201 72% 80 28% 167 72% 66 28% 48 87% 7 13%

¹ Reflects the health service region of a person's residence at the time of report (not necessarily current residence). See Epidemiologic Profile General Appendices, Health Service Region Maps, available at http://www.mass.gov/dph/aids/research/profile2005/app5, brs. maps.pdf for configuration of health service regions

http://www.mass.gov/dph/aids/research/profile2005/app5 hrs maps.pdf. for configuration of health service regions.

Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999

⁴ HSRs are regions defined geographically to facilitate targeted health service planning. While prisons do not constitute an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. Prisons include only persons who were diagnosed with HIV/AIDS while in a correctional facility. These data do not reflect current incarceration status. Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/14

Table 24. Percentage distribution of people diagnosed with HIV infection by Health Service Region (HSR)¹ and race/ethnicity: Massachusetts², 2010–2012³

		Hispanic/								
	White (NH)	Black (NH)	Latino	API	Total					
HSR	%	%	%	%	N					
Boston HSR	32%	37%	25%	3%	625					
Central HSR	34%	34%	27%	3%	180					
Metro West HSR	43%	34%	19%	5%	322					
Northeast HSR	37%	28%	30%	5%	367					
Southeast HSR	53%	32%	13%	1%	281					
Western HSR	34%	24%	41%	1%	233					
Prisons ⁴	25%	27%	42%	4%	55					
Mass. Total	38%	32%	26%	3%	2,065					

¹ Reflects the health service region of a person's residence at the time of report (not necessarily current residence). See Epidemiologic Profile General Appendices, Health Service Region Maps, available at

http://www.mass.gov/dph/aids/research/profile2005/app5 hrs maps.pdf for configuration of health service regions.

Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

⁴ HSRs are regions defined geographically to facilitate targeted health service planning. While prisons do not constitute an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. Prisons include only persons who were diagnosed with HIV/AIDS while in a correctional facility. These data do not reflect current incarceration status. (NH) = Non-Hispanic, API = Asian/Pacific Islander

Table 25. Percentage distribution of people diagnosed with HIV infection by Health Service Region (HSR)¹ and exposure mode: Massachusetts², 2010-2012³

	MSM/			Pres.				
	MSM	IDU	IDU	HTSX	Other	HTSX⁴	Undet.⁵	Total
HSR	%	%	%	%	%	%	%	N
Boston	50%	6%	3%	10%	1%	11%	20%	625
Central	33%	11%	3%	15%	0%	19%	19%	180
Metro West	47%	3%	2%	10%	1%	13%	24%	322
Northeast	36%	8%	3%	14%	0%	11%	28%	367
Southeast	44%	8%	4%	9%	0%	15%	21%	281
Western	40%	12%	2%	12%	1%	12%	21%	233
Prison ⁶	18%	45%	7%	11%	0%	2%	16%	55
Total	43%	8%	3%	11%	1%	12%	22%	2,065

Reflects the health service region of a person's residence at the time of report (not necessarily current residence). See Epidemiologic Profile General Appendices, Health Service Region Maps, available at

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex; Undet. = Undetermined

http://www.mass.gov/dph/aids/research/profile2005/app5 hrs maps.pdf for configuration of health service regions.

Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁵ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁶ HSRs are regions defined geographically to facilitate targeted health service planning. While prisons do not constitute an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. Prisons include only persons who were diagnosed with HIV/AIDS while in a correctional facility

Profile of people testing for HIV at publicly-funded sites

Technical Notes:

Program utilization data for HIV/AIDS prevention services describe people who utilize these services and who may be at risk for HIV infection. The following tables contain data on clients utilizing state-funded counseling and testing sites. These settings include community health centers, hospitals, jails and sexually transmitted disease clinics. An estimated 30% of people who get tested for HIV infection in Massachusetts get tested at one of these sites; therefore, these data are not representative of all people testing for HIV infection in Massachusetts. It is important to note that the data presented in this section represent tests performed and not individual clients; therefore the data may contain more than one test for some people.

Table 26. Number and percent of positive HIV tests ¹ by gender, race/ethnicity, and age of client: Massachusetts, 2012				
HIV Tests by Gender of Client:	Total Tests	Total Positive Results ²	Percent Positive	
Male	38,421	483	1.3%	
Female	27,509	185	0.7%	
Transgender	280	7	2.5%	
Unknown ²	455	4	0.9%	
HIV Tests by Race/Ethnicity of Client:	Total Tests	Total Positive Results	Percent Positive	
White (non-Hispanic)	22,037	223	1.0%	
Black (non-Hispanic)	20,288	224	1.1%	
Hispanic/Latino	19,261	186	1.0%	
Asian	1,610	16	1.0%	
Native Hawaiian/Pacific Islander	64	<5	n/a	
American Indian/Alaska Native	161	<5	n/a	
Multi-race	686	7	1.0%	
Unknown ³	2,558	21	0.8%	
		Total	,	
HIV Tests by Age of Client, in Years:	Total Tests	Positive Results	Percent Positive	
Under 13	59	0	0.0%	
13 to 19	4,366	16	0.4%	
20 to 24	13,044	61	0.5%	
25 to 29	12,659	92	0.7%	
30 to 34	9,630	95	1.0%	
35 to 39	6,578	73	1.1%	
40 to 44	5,879	77	1.3%	
45 to 49	4,922	104	2.1%	
50 to 54	3,790	65	1.7%	
55 to 59	2,268	56	2.5%	
60 +	2,491	30	1.2%	
Unknown ³	979	10	1.0%	
Total	66,665	679	1.0%	
¹ Tests performed at publicly funded HIV counseling and tes ² Positive tests include both new and previously known posi ³ Unknown indicates that the data were missing or unreadal Data Source: MDPH Office of HIV/AIDS HIV Counseling an	tive tests based on client se ole			

Technical Notes:

The following tables include data about number of sexual partners and condom use as reported by Massachusetts residents through anonymous telephone interviews in 2011 and 2012. This ongoing random-digit-dial telephone survey, the Behavioral Risk Factor Surveillance System (BRFSS), covers a broad range of topic areas (including sexually-related risk) and is part of a CDC-funded national survey program.

Sex with multiple partners has historically been correlated with other predictors of HIV transmission. Reducing numbers of sexual partners has been an HIV/STD prevention intervention strategy, as has increasing condom use. Data regarding the prevalence of each of these behaviors follows.

	0 Partners	1 Partner	2 + Partners	N^2
Total:	19.8%	70.3%	9.9%	7,001
Age in Years:	0 Partners	1 Partner	2 + Partners	N
18–24	24.3%	45.5%	30.1%	242
25–34	12.3%	77.5%	10.2%	778
35–44	10.9%	82.1%	7.0%	1,386
45–64	25.6%	70.6%	3.8%	4,490
Sex:	0 Partners	1 Partner	2 + Partners	N
Male	17.4%	68.2%	14.4%	2,697
Female	22.2%	72.3%	5.4%	4,304
Race/Ethnicity:	0 Partners	1 Partner	2 + Partners	N
White (non-Hispanic) Black (non-Hispanic)	19.2%	71.6%	9.3%	5,588
RIGCK (DOD-HICDGDIC)	23.2%	68.0%	8.9%	470

¹ "Number of sexual partners in past year" is a state-added question administered to a sub-sample of BRFSS respondents and represents the number of people a respondent reports having sex with. Sex was defined by the interviewer as including oral, vaginal, or anal sex.

² Only respondents with known values are included in this table. Column sub-totals may not equal overall total due to missing values.

³ Unstable estimates with N < 50 or relative standard error >30% are suppressed

Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2011–2012

Table 28. Number of sexual partners in the past year	¹ , <i>male</i> BRFSS
respondents ages 18-64: Massachusetts, 2011-2012	

	0 Partners	1 Partner	2+ Partners	N^2
Total Males	17.4%	68.2%	14.4%	2,697
Age in Years:	0 Partners	1 Partner	2+ Partners	N
18–24	27.0%	33.2%	39.9%	107
25–34	13.9%	72.6%	13.4%	288
35–44	9.1%	80.7%	10.2%	505
45–64	19.1%	74.1%	6.8%	1,770
Race/Ethnicity:	0 Partners	1 Partner	2+ Partners	N
White (non-Hispanic)	17.1%	69.3%	13.7%	2,192
Black (non-Hispanic)	14.7%	71.2%	14.2%	156
Hispanic/Latino	24.3%	62.0%	13.7%	167
Sex of Partner ⁴ :	0 Partners	1 Partner	2+ Partners	N
Same Sex	Not Applicable	63.1%	36.9%	111
Opposite Sex	Not Applicable	84.0%	16.0%	2,044

[&]quot;Number of sexual partners in past year" is a state-added question administered to a sub-sample of BRFSS respondents and represents the number of people a respondent reports having sex with. Sex was defined by the interviewer as including oral, vaginal, or anal sex.

² Only respondents with known values are included in this table. Column sub-totals may not equal the overall total due to missing

values.

3 Unstable estimates with N < 50 or relative standard error >30% are suppressed

4 Only asked of adults reporting sex (including oral, vaginal, or anal sex) in the past year

Data source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2011–2012

Table 29. Number of sexual partners in the past year¹, female BRFSS respondents ages 18-64 Massachusetts, 2011-2012

	0 Partners	1 Partner	2+ Partners	N^2
Total Females	22.2%	72.3%	5.4%	4,304
Age in Years:	0 Partners	1 Partner	2+ Partners	N
18–24	21.3%	59.8%	18.9%	135
25–34	10.7%	82.3%	7.0%	490
35–44	12.5%	83.4%	4.1%	881
45–64	31.9%	67.3%	0.9%	2,720
Race/Ethnicity:	0 Partners	1 Partner	2+ Partners	N
Mhite (non Hienenia)	24.20/	70.00/	4.00/	2 200
White (non-Hispanic)	21.2%	73.8% 64.7%	4.9%	3,396 314
Black (non-Hispanic) Hispanic/Latino	31.8% 19.5%	70.7%	3.5% 9.9%	366
Sex of Partner ⁴ :	0 Partners	1 Partner	2+ Partners	N
Same sex	Not Applicable	99.3%	0.7%	78
Opposite sex	Not Applicable	93.2%	6.8%	2,905

[&]quot;Number of sexual partners in past year" is a state-added question administered to a sub-sample of BRFSS respondents and represents the number of people a respondent reports having sex with. Sex was defined by the interviewer as including oral, vaginal, or anal sex. ² Only respondents with known values are included in this table. Column sub-totals may not equal overall total due to missing

Data source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2011–2012

³ Unstable estimates with N < 50 or relative standard error >30% are suppressed

⁴ Only asked of adults reporting sex (including oral, vaginal, or anal sex) in the past year

	% Used Condom	Total N ²
Total:	25.3%	5,153
Sex:	% Used Condom	Total N
Male Female	29.1% 21.3%	2,175 2,978
Race/Ethnicity:	% Used Condom	Total N
White (non-Hispanic) Black (non-Hispanic) Hispanic/Latino	24.3% 32.4% 23.8%	4,151 336 371
Number of Partners:	% Used Condom	Total N
1 2 3+	20.0% 40.4% 75.0%	4,791 183 141
Sex of Partner:	% Used Condom	Total N
Male Respondent Reporting Sex with Only Male Male Respondent Reporting Sex with Only Female Female Respondent Reporting Sex with Only Female Female Respondent Reporting Sex with Only Male	46.3% 28.1% 15.1% 21.2%	114 2,053 78 2,894

Table 31. Ever tested for HIV¹, BRFSS respondents age 18–64: Massachusetts, 2011–2012²

Year:	Total N ³	% Ever Tested for HIV
2011	13,502	45.5%
2012	13,609	42.9%

¹ This question was one of the core federal questions posed to all respondents to the annual BRFSS between the ages of 18-64 ² 2011 data are not presented because new weighting methodology (raking weight) implemented by CDC in 2011 makes this year not comparable with previous years.

Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 1994–2010

Table 32. Ever tested for HIV by number of sexual partners in past year¹, BRFSS respondents age 18–64: Massachusetts, 2011–2012

	Total N ²	% Ever Tested for HIV
Total:	6,709	43.9%
Number of Partners:	Total N	% Ever Tested for HIV
0	1,707	32.1%
1	4,684	46.8%
2	178	38.5%
2 3+	140	52.8%

¹ "Number of sexual partners in past year" is a state-added question administered to a sub-sample of BRFSS respondents and represents the number of people a respondent reports having sex with. Sex was defined by the interviewer as including oral, variable or analysex.

Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2011–2012

not comparable with previous years.

Respondents with missing values for this item were not included in this table.

² Total number of participants that responded to both number of sexual partners and ever tested for HIV

³ Unstable estimates with N < 50 or relative standard error >30% are suppressed